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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/645,115 08/21/2003		Toshisada Koyama	051319-0052 6684		
29619	7590 02/14/2006		EXAMINER		
SCHULTE ROTH & ZABEL LLP ATTN: JOEL E. LUTZKER			EVANS, JEFFERSON A		
919 THIRD AVENUE			ART UNIT	PAPER NUMBER	

2652
DATE MAILED: 02/14/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

			Application No.	Applicant(s)		
Office Action Summary		10/645,115	KOYAMA, TOSHISADA			
		Examiner	Art Unit			
			Jefferson A. Evans	2652		
Period fo	The MAILING DATE of this commun	ication appe	ars on the cover sheet with the	correspondence ad	dress	
A SH WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE M resions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comm period for reply is specified above, the maximum stree to reply within the set or extended period for reply reply received by the Office later than three months a red patent term adjustment. See 37 CFR 1.704(b).	AILING DA of 37 CFR 1.136 nunication. atutory period will will, by statute, c	TE OF THIS COMMUNICATIO (a). In no event, however, may a reply be tin I apply and will expire SIX (6) MONTHS from tause the application to become ABANDONE	N. mely filed the mailing date of this co ED (35 U.S.C. § 133).		
Status						
2a) <u></u> ☐	Responsive to communication(s) file This action is <b>FINAL</b> . Since this application is in condition closed in accordance with the practi	2b)⊠ This a for allowand	action is non-final. ce except for formal matters, pro		e merits is	
Dispositi	on of Claims					
5)□ 6)⊠ 7)⊠ 8)□	Claim(s) 1-7 is/are pending in the appear of the above claim(s) is/a Claim(s) is/are allowed. Claim(s) 1 and 2 is/are rejected. Claim(s) 3 to 7 is/are objected to. Claim(s) are subject to restrict on Papers	re withdrawi				
	The specification is objected to by the	e Evaminer				
10)⊠	The drawing(s) filed on 13 June 2005 Applicant may not request that any object Replacement drawing sheet(s) including The oath or declaration is objected to	is/are: a) ction to the dr the correctio	☑ accepted or b) ☐ objected to rawing(s) be held in abeyance. Se on is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CF		
Priority u	ınder 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
2)  Notic 3)  Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P nation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	D-152)	

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Claims 1 to 7 are pending.

### Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Robinson et al (U.S. 5,529,404).

### As per Claim 1

Robinson discloses a pivot assembly for a disk drive (figure 4 and column 5 – lines 1 to 38) which utilizes laser welding rather than adhesives in the assembly of the pivot assembly. Figure 4 discloses upper 71 and lower 68 ball bearings (although the figure appears to mistakenly use the reference character 78 to indicate the lower ball bearing) with the outer races of the upper and lower ball bearings being separated by a spacer 69 (although the figure appears to have a second error in that the lead line from reference character 69 stops short rather than extending all the way to the spacer.

Robinson sets forth that the outer races of the ball bearings are laser welded to a sleeve 80 but does not expressly state that the spacer is laser welded to the outer races of the ball bearings.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to laser weld the outer races of the ball bearings of Robinson to the



spacer. The motivation would have been: Robinson indicates that the number of welds may be increased to provide the desired axial strength and as the spacer plays an important role in the positioning of the ball bearings and the axial strength of the pivot assembly, one of ordinary skill in the art would have been led to laser weld the outer races of the ball bearings to the spacer.

#### As per Claim 2

It would have been obvious to one of ordinary skill in the art at the time the invention was made to laser weld the outer races of the ball bearings of Robinson to the spacer at corners of the spacer. The motivation would have been: the upper and lower facing surfaces of the spacer are the surfaces that contact the outer races of the ball bearings and those surfaces would be where laser welding would be required to take place to fix the outer races to the spacer, and any portion of those surfaces, including to the radially outer corner would be an obvious candidate for a laser weld location. The corner will read on the claimed sharp corner.

## Allowable Subject Matter

- 3. Claims 3 to 7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jefferson A. Evans whose telephone number is 571-272-7574. The examiner can normally be reached on Monday to Friday, 9:00am to 5:30pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, A. L. Wellington can be reached on 571-272-4483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

February 11, 2006

Jefferson A. Evans Primary Examiner Art Unit 2652

> JEFFERSON EVANS PRIMARY EXAMINER